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(19) **United States**(12) **Patent Application Publication**
Rothschild(10) **Pub. No.: US 2020/0279585 A1**(43) **Pub. Date: Sep. 3, 2020**(54) **SYSTEM AND METHOD FOR TESTING FOR COVID-19**(71) Applicant: **Richard A. Rothschild**, London (GB)(72) Inventor: **Richard A. Rothschild**, London (GB)(21) Appl. No.: **16/876,114**(22) Filed: **May 17, 2020***G06K 9/00* (2006.01)*H04N 5/76* (2006.01)*H04N 9/82* (2006.01)*G16H 40/63* (2006.01)(52) **U.S. Cl.**CPC *G11B 27/10* (2013.01); *G11B 27/031* (2013.01); *G06K 9/00892* (2013.01); *G06K 2009/00939* (2013.01); *H04N 9/8205* (2013.01); *G11B 27/102* (2013.01); *G16H 40/63* (2018.01); *H04N 5/76* (2013.01)**Related U.S. Application Data**

(63) Continuation-in-part of application No. 16/704,844, filed on Dec. 5, 2019, which is a continuation of application No. 16/273,141, filed on Feb. 11, 2019, now Pat. No. 10,522,188, which is a continuation of application No. 15/495,485, filed on Apr. 24, 2017, now Pat. No. 10,242,713, which is a continuation of application No. 15/293,211, filed on Oct. 13, 2016, now abandoned.

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(57)

ABSTRACT

A method is provided for acquiring and transmitting biometric data (e.g., vital signs) of a user, where the data is analyzed to determine whether the user is suffering from a viral infection, such as COVID-19. The method includes using a pulse oximeter to acquire at least pulse and blood oxygen saturation percentage, which is transmitted wirelessly to a smartphone. To ensure that the data is accurate, an accelerometer within the smartphone is used to measure movement of the smartphone and/or the user. Once accurate data is acquired, it is uploaded to the cloud (or host), where the data is used (alone or together with other vital signs) to determine whether the user is suffering from (or likely to suffer from) a viral infection, such as COVID-19. Depending on the specific requirements, the data, changes thereto, and/or the determination can be used to alert medical staff and take corresponding actions.

